

## WEST Search History

DATE: Tuesday, November 13, 2007

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b><u>Hit Count</u></b>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	(feed with additive) and L6	1
<input type="checkbox"/>	L7	(feed with additive) same L6	0
<input type="checkbox"/>	L6	composition same L5	7
<input type="checkbox"/>	L5	reesei same L4	162
<input type="checkbox"/>	L4	trichoderma same L3	251
<input type="checkbox"/>	L3	express\$4 same L2	959
<input type="checkbox"/>	L2	(gene or sequence or polynucleotide or clone or recombinant) same L1	2498
<input type="checkbox"/>	L1	(cellulase or 029cel)	13910

END OF SEARCH HISTORY

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:00:55 ON 13 NOV 2007

72 FILES IN THE FILE LIST IN STNINDEX

=> S (cellulase or 029cel)

1 FILE ADISNEWS  
3458 FILE AGRICOLA  
141 FILE ANABSTR  
147 FILE ANTE  
47 FILE AQUALINE  
350 FILE AQUASCI  
3001 FILE BIOENG  
9723 FILE BIOSIS  
6966 FILE BIOTECHABS  
6966 FILE BIOTECHDS  
2633 FILE BIOTECHNO  
6255 FILE CABA  
20065 FILE CAPLUS  
1962 FILE CEABA-VTB  
97 FILE CIN  
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27 FILE FOREGE  
647 FILE FROSTI  
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35 FILES SEARCHED...  
21 FILE HEALSAFE  
1631 FILE IFIPAT  
86 FILE IMSPRODUCT  
8 FILE KOSMET  
3740 FILE LIFESCI  
3674 FILE MEDLINE  
327 FILE NTIS  
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8 FILE PHIN  
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14 FILE RDISCLOSURE  
6949 FILE SCISEARCH  
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6336 FILE USPATFULL  
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825 FILE USPAT2  
10 FILE VETB  
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70 FILE WATER  
3918 FILE WPIDS

29 FILE WPIFV  
3918 FILE WPINDEX  
16 FILE IPA  
16 FILE NAPRALERT  
129 FILE NLDB

61 FILES HAVE ONE OR MORE ANSWERS, 72 FILES SEARCHED IN STNINDEX

L1 QUE (CELLULASE OR 029CEL)

=> d rank

F1 20065 CAPLUS  
F2 9723 BIOSIS  
F3 8623 DGENE  
F4 6966 BIOTECHABS  
F5 6966 BIOTECHDS  
F6 6949 SCISEARCH  
F7 6336 USPATFULL  
F8 6255 CABA  
F9 5448 PASCAL  
F10 3918 WPIDS  
F11 3918 WPINDEX  
F12 3740 LIFESCI  
F13 3674 MEDLINE  
F14 3575 EMBASE  
F15 3458 AGRICOLA  
F16 3001 BIOENG  
F17 2744 GENBANK  
F18 2633 BIOTECHNO  
F19 2398 ESBIOBASE  
F20 2327 TOXCENTER  
F21 2117 FSTA  
F22 1962 CEABA-VTB  
F23 1631 IFIPAT  
F24 1212 USGENE  
F25 825 USPAT2

=> file f1, f2, f4, f6-f10, f12-f16, f18, f20

FILE 'CAPLUS' ENTERED AT 11:03:23 ON 13 NOV 2007  
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FILE 'TOXCENTER' ENTERED AT 11:03:23 ON 13 NOV 2007  
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=> S L1

L2 81102 L1

=> S (gene or sequence or polynucleotide or clone or recombinant)(s) L2

7 FILES SEARCHED...

L3 7263 (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)(S)  
L2

=> S express? (s) L3

L4 2906 EXPRESS? (S) L3

=> S Trichodera (s) L4

L5 0 TRICHODERA (S) L4

=> S Trichoderma (s) L4

L6 500 TRICHODERMA (S) L4

=> S reesei (s) L6

L7 390 REESEI (S) L6

=> S (transform? or host or vector) (s) L7

L8 143 (TRANSFORM? OR HOST OR VECTOR) (S) L7

=> S streptomyces (s) L8

L9 3 STREPTOMYCES (S) L8

=> S streptomyces and L8

L10 26 STREPTOMYCES AND L8

=> S composition and L10

L11 21 COMPOSITION AND L10

=> S (feed (w) additive) and L11

L12 10 (FEED (W) ADDITIVE) AND L11

=> dup rem l10

PROCESSING COMPLETED FOR L10

L13 26 DUP REM L10 (0 DUPLICATES REMOVED)

=> dup rem l11

PROCESSING COMPLETED FOR L11

L14 21 DUP REM L11 (0 DUPLICATES REMOVED)

=> d ibib abs L14 1-21

L14 ANSWER 1 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2007:278587 USPATFULL <<LOGINID::20071113>>

TITLE: Enzyme fusion proteins and their use

INVENTOR(S): Alapuranen, Marika, Rajamaki, FINLAND

Valtakari, Leena, Rajamaki, FINLAND

Kallio, Jarmo, Jarvenpaa, FINLAND

Ojapalo, Pentti, Tuusula, FINLAND

Vehmaanpera, Jari, Klaukkala, FINLAND

PATENT ASSIGNEE(S): AB Enzymes Oy, Rajamaki, FINLAND (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2007244020 A1 20071018

APPLICATION INFO.: US 2006-404065 A1 20060413 (11)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BANNER & WITCOFF, LTD., 28 STATE STREET, 28th FLOOR,  
BOSTON, MA, 02109-9601, US

NUMBER OF CLAIMS: 30

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 1784

AB Cellulase fusion proteins comprising an endoglucanase core region and a heterologous cellulose binding domain are described. The fusion proteins may be produced by recombinant techniques using appropriate polynucleotides, expressing vectors and host cells. The fusion proteins and enzyme preparations thereof are useful in treating cellulosic material, such as textile material, and they are particularly useful in biostoning denim or in biofinishing fabrics and garments. In addition the fusion proteins may be used in pulp and paper industry, oil extraction from plants, detergent compositions, or for improving the quality of animal feed.

L14 ANSWER 2 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2007:243737 USPATFULL <<LOGINID::20071113>>

TITLE: EGVI endoglucanase and nucleic acids encoding the same

INVENTOR(S): Dunn-Coleman, Nigel, Los Gatos, CA, UNITED STATES

Goedegebuur, Frits, Vlaardingen, NETHERLANDS

Ward, Michael, San Francisco, CA, UNITED STATES

Yao, Jian, Sunnyvale, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2007213249 A1 20070913

APPLICATION INFO.: US 2006-329714 A1 20060110 (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-26994, filed on 18 Dec  
2001, GRANTED, Pat. No. US 7056721

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Genencor International, Inc., 925 Page Mill Road, Palo  
Alto, CA, 94304-1013, US

NUMBER OF CLAIMS: 3

EXEMPLARY CLAIM: 1-24

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT: 2046

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a novel endoglucanase nucleic acid sequence, designated egl6, and the corresponding EGVI amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding EGVI, recombinant EGVI proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2007:219939 USPATFULL <<LOGINID::20071113>>

TITLE: Production of beta-glucosidase, hemicellulase and  
ligninase in E1 and FLC-cellulase-transgenic plants

INVENTOR(S): Sticklen, Masomeh B., East Lansing, MI, UNITED STATES

PATENT ASSIGNEE(S): Board of Trustees of Michigan State University, East  
Lansing, MI, UNITED STATES (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2007192900 A1 20070816

APPLICATION INFO.: US 2006-489234 A1 20060719 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2006-451162, filed

on 12 Jun 2006, ABANDONED Continuation-in-part of Ser.  
No. US 2006-354310, filed on 14 Feb 2006, PENDING

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Ian C. McLeod, McLeod & Moyne, P.C., 2190 Commons  
Parkway, Okemos, MI, 48864, US  
NUMBER OF CLAIMS: 35  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 31 Drawing Page(s)  
LINE COUNT: 6374  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides transgenic plants expressing one or more cell wall degrading enzymes that can degrade lignocellulose to fermentable sugars. These fermentable sugars can further be fermented to ethanol or other products. The enzymes are directed to the plastids or the apoplasts or the transgenic plant for storage. When the transgenic plants are harvested, the plants are ground to release the enzymes which then are used to degrade the lignocellulose of plant material to produce the fermentable sugars. The transgenic plants express the flowering locus c gene so that flowering is delayed and the plant biomass is increased.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2007:198085 USPATFULL <<LOGINID::20071113>>  
TITLE: Novel variant hypocrea jecorina CBH1 cellulases  
INVENTOR(S): Day, Anthony, San Francisco, CA, UNITED STATES  
Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Gualfetti, Peter, San Francisco, CA, UNITED STATES  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
Neefe, Paulien, Zoetermeer, NETHERLANDS  
Sandgren, Mats, Uppsala, SWEDEN  
Shaw, Andrew, San Francisco, CA, UNITED STATES  
Stahlberg, Jerry, Uppsala, SWEDEN

NUMBER KIND DATE

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PATENT INFORMATION: US 2007173431 A1 20070726  
APPLICATION INFO.: US 2007-728219 A1 20070322 (11)  
RELATED APPLN. INFO.: Division of Ser. No. US 2003-472717, filed on 19 Sep  
2003, PENDING A 371 of International Ser. No. WO  
2002-US11963, filed on 17 Apr 2002 Continuation of Ser.  
No. US 2003-641678, filed on 15 Aug 2003, PENDING

NUMBER DATE

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PRIORITY INFORMATION: US 2002-404063P 20020816 (60)  
US 2003-458853P 20030327 (60)  
US 2003-456368P 20030321 (60)  
US 2003-458696P 20030327 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013, US  
NUMBER OF CLAIMS: 16  
EXEMPLARY CLAIM: 1-5  
NUMBER OF DRAWINGS: 39 Drawing Page(s)  
LINE COUNT: 6755  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described herein are variants of H. jecorina CBH I, a Cel7 enzyme. The present invention provides novel cellobiohydrolases that have improved thermostability and reversibility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 5 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2006:288577 USPATFULL <<LOGINID::20071113>>  
TITLE: Novel cellulases and their uses  
INVENTOR(S): Vehmaanpera, Jari, Klaukkala, FINLAND

Puranen, Terhi, Nurmijarvi, FINLAND  
Valtakari, Leena, Rajamaki, FINLAND  
Kallio, Jarno, Jarvenpaa, FINLAND  
Alapuranen, Marika, Tuusula, FINLAND  
Paloheimo, Marja, Vantaa, FINLAND  
Ojapalo, Pentti, Tuusula, FINLAND  
PATENT ASSIGNEE(S): AB Enzymes GmbH, Darmstadt, GERMANY, FEDERAL REPUBLIC  
OF (non-U.S. corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 2006246566 A1 20061102  
APPLICATION INFO.: US 2005-119526 A1 20050429 (11)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: BANNER & WITCOFF, LTD., 28 STATE STREET, 28th FLOOR,  
BOSTON, MA, 02109-9601, US  
NUMBER OF CLAIMS: 66  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 17 Drawing Page(s)  
LINE COUNT: 3105

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel cellulase fusion proteins,  
preparations of cellulase fusion proteins and compositions of cellulase  
fusion proteins. The present invention further provides cellulase  
expression vectors, host cells expressing cellulase and methods for  
preparing such vectors and cells. Uses of cellulases, cellulase  
preparations and cellulase compositions in the textile, detergent, pulp  
and paper industries are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 6 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2006:240597 USPATFULL <<LOGINID::20071113>>  
TITLE: Novel variant hypocrea jecorina CBH2 cellulases  
INVENTOR(S): Aehle, Wolfgang, Leiden, NETHERLANDS  
Goedegebuur, Frits, Leiden, NETHERLANDS  
Dankmeyer, Lydia, Leiden, NETHERLANDS  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
Neefe, Paulien, Leiden, NETHERLANDS  
Kelemen, Bradley, Menlo Park, CA, UNITED STATES  
Caldwell, Robert, Belmont, CA, UNITED STATES  
Teunissen, Pauline, Leiden, NETHERLANDS

NUMBER KIND DATE

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PATENT INFORMATION: US 2006205042 A1 20060914  
APPLICATION INFO.: US 2005-317110 A1 20051222 (11)

NUMBER DATE

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PRIORITY INFORMATION: US 2004-640398P 20041230 (60)  
US 2005-656863P 20050225 (60)  
US 2005-666072P 20050328 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013, US  
NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 19 Drawing Page(s)  
LINE COUNT: 4337

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described herein are variants of H. jecorina CBH2, a Cel6A enzyme. The  
present invention provides novel cellobiohydrolases that have altered  
thermostability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 7 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2006:195567 USPATFULL <<LOGINID::20071113>>  
TITLE: EGVI endoglucanase and nucleic acids encoding the same  
INVENTOR(S): Dunn-Coleman, Nigel, Los Gatos, CA, UNITED STATES  
Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Ward, Michael, San Francisco, CA, UNITED STATES  
Yao, Jian, Sunnyvale, CA, UNITED STATES

NUMBER KIND DATE  
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PATENT INFORMATION: US 2006166322 A1 20060727  
APPLICATION INFO.: US 2006-329439 A1 20060110 (11)  
RELATED APPLN. INFO.: Division of Ser. No. US 2001-26994, filed on 18 Dec  
2001, GRANTED, Pat. No. US 7056721  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013, US  
NUMBER OF CLAIMS: 5  
EXEMPLARY CLAIM: 1-17  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 2093  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The present invention provides a novel endoglucanase nucleic acid  
sequence, designated egl6, and the corresponding EGVI amino acid  
sequence. The invention also provides expression vectors and host cells  
comprising a nucleic acid sequence encoding EGVI, recombinant EGVI  
proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2006:182440 USPATFULL <<LOGINID::20071113>>  
TITLE: EGVI endoglucanase and nucleic acids encoding the same  
INVENTOR(S): Dunn-Coleman, Nigel, Los Gatos, CA, UNITED STATES  
Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Ward, Michael, San Francisco, CA, UNITED STATES  
Yao, Jian, Sunnyvale, CA, UNITED STATES

NUMBER KIND DATE  
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PATENT INFORMATION: US 2006154844 A1 20060713  
APPLICATION INFO.: US 2006-329621 A1 20060110 (11)  
RELATED APPLN. INFO.: Division of Ser. No. US 2001-26994, filed on 18 Dec  
2001, PENDING  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Genencor International, Inc., 925 Page Mill Road, Palo  
Alto, CA, 94304-1013, US  
NUMBER OF CLAIMS: 11  
EXEMPLARY CLAIM: 1-26  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 2066  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The present invention provides a novel endoglucanase nucleic acid  
sequence, designated egl6, and the corresponding EGVI amino acid  
sequence. The invention also provides expression vectors and host cells  
comprising a nucleic acid sequence encoding EGVI, recombinant EGVI  
proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 9 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2005:318432 USPATFULL <<LOGINID::20071113>>  
TITLE: Novel variant hypocrea jecorina CBH1 cellulases  
INVENTOR(S): Day, Anthony, San Francisco, CA, UNITED STATES  
Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Gualfetti, Peter, San Francisco, CA, UNITED STATES  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
Neefe, Paulien, Zoetermeer, NETHERLANDS  
Sandgren, Mats, Uppsala, SWEDEN



Shaw, Andrew, San Francisco, CA, UNITED STATES  
Stahlberg, Jerry, Uppsala, SWEDEN  
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA, UNITED STATES (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005277172 A1 20051215  
APPLICATION INFO.: US 2003-641678 A1 20030815 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-404063P 20020816 (60)  
US 2003-458853P 20030327 (60)  
US 2003-456368P 20030321 (60)  
US 2003-458696P 20030327 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013, US

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 50 Drawing Page(s)

LINE COUNT: 6762

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described herein are variants of H. jecorina CBH I, a Cel7 enzyme. The present invention provides novel cellobiohydrolases that have improved thermostability and reversibility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 10 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2005:247215 USPATFULL <<LOGINID::20071113>>

TITLE: Modified xylanases exhibiting improved expression

INVENTOR(S): White, Theresa, Ottawa, CANADA

Giroux, Genevieve R., Gloucester, CANADA

Wallace, Katie E. A., Nepean, CANADA

PATENT ASSIGNEE(S): IOGEN BIO-PRODUCTS CORPORATION (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005214410 A1 20050929  
APPLICATION INFO.: US 2005-88725 A1 20050325 (11)

NUMBER DATE

PRIORITY INFORMATION: US 2004-556061P 20040325 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,  
SUITE 800, WASHINGTON, DC, 20037, US

NUMBER OF CLAIMS: 39

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 10 Drawing Page(s)

LINE COUNT: 2613

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A modified Family 11 xylanase enzyme comprising a sequence that introduces a functional consensus glycosylation site is provided. Non-limiting examples of introduced glycosylation sites include mutation of the amino acid at position 34, 131, 180, 182, or a combination thereof, to an asparagine. The indicated amino acid position in the Family 11 xylanase is determined from sequence alignment of the xylanase of interest with that of a Trichoderma reesei xylanase II amino acid sequence. The introduced consensus glycosylation site facilitates increased expression efficiency of the modified xylanase when compared to the expression efficiency of a corresponding xylanase from which the modified xylanase was derived, using similar host strains and growth conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 11 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2005:63002 USPATFULL <<LOGINID::20071113>>  
TITLE: Novel CBH1 homologs and variant CBH1 cellulases  
INVENTOR(S): Goedegebuur, Frits, Rozenlaan, NETHERLANDS  
Gualfetti, Peter, San Francisco, CA, UNITED STATES  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
Neefe, Paulien, Zoetermeer, NETHERLANDS  
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA, 94304  
(non-U.S. corporation)

NUMBER KIND DATE  
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PATENT INFORMATION: US 2005054039 A1 20050310  
APPLICATION INFO.: US 2004-804785 A1 20040319 (10)

NUMBER DATE  
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PRIORITY INFORMATION: US 2003-456368P 20030321 (60)  
US 2003-458696P 20030327 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013  
NUMBER OF CLAIMS: 25  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 14 Drawing Page(s)  
LINE COUNT: 2924  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Disclosed are a number of homologs and variants of *Hypocrea jecorina*  
Cel7A (formerly *Trichoderma reesei* cellobiohydrolase I or CBH1), nucleic  
acids encoding the same and methods for producing the same. The homologs  
and variant cellulases have the amino acid sequence of a glycosyl  
hydrolase of family 7A wherein one or more amino acid residues are  
substituted and/or deleted.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 12 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2005:43731 USPATFULL <<LOGINID::20071113>>  
TITLE: Variant *humicola grisea* CBH1.1  
INVENTOR(S): Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Gualfetti, Peter, San Francisco, CA, UNITED STATES  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
Larenas, Edmund, Moss Beach, CA, UNITED STATES  
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA, UNITED  
STATES (non-U.S. corporation)

NUMBER KIND DATE  
-----

PATENT INFORMATION: US 2005037459 A1 20050217  
APPLICATION INFO.: US 2004-810277 A1 20040326 (10)

NUMBER DATE  
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PRIORITY INFORMATION: US 2003-459734P 20030401 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013  
NUMBER OF CLAIMS: 19  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 18 Drawing Page(s)  
LINE COUNT: 2764  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Disclosed are variants of *Humicola grisea* Cel7A (CBH1.1), *H. jecorina*  
CBH1 variant or *S. thermophilum* CBH1, nucleic acids encoding the same  
and methods for producing the same. The variant cellulases have the  
amino acid sequence of a glycosyl hydrolase of family 7A wherein one or  
more amino acid residues are substituted.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 13 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2004:158646 USPATFULL <<LOGINID::20071113>>  
TITLE: Induction of gene expression using a high concentration  
sugar mixture  
INVENTOR(S): England, George R., Redwood City, CA, UNITED STATES  
Kelley, Aaron, Mountain View, CA, UNITED STATES  
Mitchinson, Colin, Half Moon Bay, CA, UNITED STATES  
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA (U.S.  
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2004121446 A1 20040624  
APPLICATION INFO.: US 2003-660123 A1 20030910 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-409466P 20020910 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925  
PAGE MILL ROAD, PALO ALTO, CA, 94304-1013  
NUMBER OF CLAIMS: 33  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 6 Drawing Page(s)  
LINE COUNT: 1266  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Described herein is a \*\*\*composition\*\*\* useful for inducing  
expression of genes whose expression is under control of an inducible  
promoter sequence and methods for the compositions preparation and use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 14 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2004:18883 USPATFULL <<LOGINID::20071113>>  
TITLE: Method for the production of xylitol  
INVENTOR(S): Ojamo, Heikki, Kirkkonummi, FINLAND  
Penttila, Merja, Helsinki, FINLAND  
Heikkila, Heikki, Espoo, FINLAND  
Uusitalo, Jaana, Espoo, FINLAND  
Ilmen, Marja, Helsinki, FINLAND  
Sarkki, Marja-Leena, Kantvik, FINLAND  
Vehkomaki, Maija-Leena, Espoo, FINLAND  
PATENT ASSIGNEE(S): Danisco Sweeteners Oy, Espoo, FINLAND (non-U.S.  
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2004014185 A1 20040122  
APPLICATION INFO.: US 2003-341220 A1 20030113 (10)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-FI663, filed  
on 11 Jul 2001, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: US 2000-217926P 20000713 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: SCULLY SCOTT MURPHY & PRESSER, PC, 400 GARDEN CITY  
PLAZA, GARDEN CITY, NY, 11530  
NUMBER OF CLAIMS: 38  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 3 Drawing Page(s)  
LINE COUNT: 1597  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The invention relates to a method for the production of xylitol, the  
method comprising

(a1) providing (i) a microorganism having xylanolytic activity, and (ii) a microorganism capable of converting a pentose sugar to xylitol; or

(a2) providing a microorganism having xylanolytic activity and being capable of converting a pentose sugar to xylitol,

(b) culturing the microorganism of step (a1) (i) or the microorganism of step (a2) in a medium comprising polymer or oligomer materials containing pentose sugars in conditions sufficient for enabling hydrolysis of said polymers or oligomers by the microorganism;

(c) producing xylitol in the microorganism of step (a1) (ii) or in the microorganism of step (a2) by bioconversion of the hydrolysis products obtained in step (b), and

(d) recovering said xylitol produced.

The invention also relates to a microorganism, which has xylanolytic activity and has been genetically modified (i) to enhance its xylanolytic activity, and (ii) to reduce its xylitol metabolism.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 15 OF 21 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-357140 [33] WPIDS

DOC. NO. CPI: C2004-135589 [33]

TITLE: Producing inducing feed \*\*\*composition\*\*\*, involves mixing first solution with whole cellulase preparation to give first mixture, and incubating first mixture at temperature and for sufficient time to produce feed \*\*\*composition\*\*\*

DERWENT CLASS: B04; D16

INVENTOR: ENGLAND G; ENGLAND G R; KELLEY A; MITCHINSON C

PATENT ASSIGNEE: (GEMV-C) GENENCOR INT INC; (GEMV-C) GENENCOR INT

COUNTRY COUNT: 105

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2004035070	A1	20040429	(200433)*	EN	35	[6]
US 20040121446	A1	20040624	(200442)	EN		
AU 2003298577	A1	20040504	(200467)	EN		
EP 1545217	A1	20050629	(200543)	EN		
JP 2006506980	W	20060302	(200621)	JA	27	
CN 1688198	A	20051026	(200622)	ZH		
AU 2003298577	A8	20051103	(200629)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004035070	A1	WO 2003-US28438	20030910
US 20040121446	A1 Provisional	US 2002-409466P	20020910
AU 2003298577	A1	AU 2003-298577	20030910
CN 1688198	A	CN 2003-823843	20030910
EP 1545217	A1	EP 2003-796327	20030910
US 20040121446	A1	US 2003-660123	20030910
EP 1545217	A1	WO 2003-US28438	20030910
JP 2006506980	W	WO 2003-US28438	20030910
JP 2006506980	W	JP 2004-544737	20030910
AU 2003298577	A8	AU 2003-298577	20030910

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003298577	A1 Based on	WO 2004035070 A
EP 1545217	A1 Based on	WO 2004035070 A

JP 2006506980 W Based on WO 2004035070 A  
AU 2003298577 A8 Based on WO 2004035070 A

PRIORITY APPLN. INFO: US 2002-409466P 20020910

US 2003-660123 20030910

AN 2004-357140 [33] WPIDS

AB WO 2004035070 A1 UPAB: 20060121

NOVELTY - Producing (M1) an inducing feed \*\*\*composition\*\*\*, involves mixing a first solution with a whole cellulase preparation to give a first mixture, and incubating the first mixture at a temperature and for a sufficient time to produce inducing feed \*\*\*composition\*\*\*.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an inducing feed \*\*\*composition\*\*\* (I) produced by (M1).

USE - (M1) is useful for producing inducing feed \*\*\*composition\*\*\*. (I) is useful for producing proteins, which involves providing a \*\*\*host\*\*\* cell with (I), where the protein produced is an endogenous \*\*\*cellulase\*\*\*, and the \*\*\*host\*\*\* cell is

\*\*\*transformed\*\*\* with an \*\*\*expression\*\*\* construct comprising a promoter operably linked to a \*\*\*gene\*\*\* encoding a protein of interest. The promoter is an inducible promoter, or a \*\*\*cellulase\*\*\*

\*\*\*gene\*\*\* promoter, which is the cbh 1 promoter from \*\*\*Trichoderma\*\*\* \*\*\*reesei\*\*\*. The inducible promoter is a sophorose-inducible promoter, or gentiobiose-inducible promoter. The protein of interest is a heterologous protein, which is chosen from hormones, enzymes, growth factors, cytokines and antibodies. The \*\*\*host\*\*\* cell is a filamentous fungus, which is chosen from \*\*\*Trichoderma\*\*\*, Humicola, Fusarium, Aspergillus, Neurospora, Penicillium, Cephalosporium, Achlya, Podospora, Endothia, Mucor, Cochliobolus and Pyricularia. The fungus is \*\*\*Trichoderma\*\*\* sp. such as T. \*\*\*reesei\*\*\* or Penicillium sp. such as P. funiculosum. The \*\*\*host\*\*\* cell is a bacteria such as \*\*\*Streptomyces\*\*\*,

Thermomonospora, Bacillus and Cellulomonas (claimed). The cellulolytic enzymes produced using (I) are useful in the production of fuel ethanol, paper, rayon, cellophane, detergents and fibers. The \*\*\*cellulase\*\*\* enzymes are also useful in improving the nutritional value of animal feeds and facilitate the extraction of valuable components from plant cells. (I) is useful for producing follicle-stimulating hormone, luteinizing hormone, platelet-derived growth factor, epidermal growth factor, amyolytic enzymes, proteolytic enzymes, cellulolytic enzymes, interleukin (IL)-1 and IL-2.

ADVANTAGE - (M1) enables improved production of proteins from cell culture. The inducing feed \*\*\*composition\*\*\* of (M1) enables enhancement of intracellular and/or extracellular production of proteins.

DESCRIPTION OF DRAWINGS - The figure is a graph representing sophorose production in 60% glucose solution (w/w) at different loadings of whole cellulase.

L14 ANSWER 16 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:213815 USPATFULL <<LOGINID::20071113>>

TITLE: Production and secretion of proteins of bacterial origin in filamentous fungi

INVENTOR(S): Mantyla, Arja, Helsinki, FINLAND

Paloheimo, Marja, Vantaa, FINLAND

Lantto, Raija, Klaukkala, FINLAND

Fagerstrom, Richard, Espoo, FINLAND

Lahtinen, Tarja, Vantaa, FINLAND

Suominen, Pirkko, Helsinki, FINLAND

Vehmaanpera, Jari, Klaukkala, FINLAND

PATENT ASSIGNEE(S): Rohm Enzyme Finland Oy (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2003148453 A1 20030807

APPLICATION INFO.: US 2002-286993 A1 20020813 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-120804, filed on 23

Jul 1998, ABANDONED Continuation of Ser. No. WO

1997-FI37, filed on 24 Jan 1997, UNKNOWN

Continuation-in-part of Ser. No. US 1996-590563, filed

on 26 Jan 1996, PATENTED Continuation-in-part of Ser.

No. US 1995-468812, filed on 6 Jun 1995, GRANTED, Pat.

No. US 5935836 Continuation-in-part of Ser. No. US  
1994-332412, filed on 31 Oct 1994, ABANDONED  
Continuation-in-part of Ser. No. US 1994-282001, filed  
on 29 Jul 1994, ABANDONED

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK  
AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934  
NUMBER OF CLAIMS: 28  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 31 Drawing Page(s)  
LINE COUNT: 3062  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is related to an improved production of bacterial proteins in filamentous fungus, e.g. in *Trichodendron* and *Aspergillus*. The improvement is achieved by constructing expression vectors, which comprise the bacterial protein encoding DNA sequences fused in frame with a DNA sequence encoding a filamentous fungus secretable protein or one or more functional domains of said protein. Filamentous fungus hosts transformed with such expression vectors secrete the desired proteins or enzymes, especially xylanases or cellulases originating from bacteria or more preferably from actinomycetes into the culture medium of the host. The desired proteins or enzymes can be used directly from the culture medium after separation of host cells or recovered and treated using down-stream processes, which are appropriate for the respective application. Xylanases or cellulases from actinomycetes produced using the above expression vectors are most suitable for treating plant derived materials e.g. in pulp and paper industries.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 17 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2003:165877 USPATFULL <<LOGINID::20071113>>  
TITLE: EGVI endoglucanase and nucleic acids encoding the same  
INVENTOR(S): Dunn-Coleman, Nigel, Los Gatos, CA, UNITED STATES  
Goedegebuur, Frits, Vlaardingen, NETHERLANDS  
Ward, Michael, San Francisco, CA, UNITED STATES  
Yao, Jian, Sunnyvale, CA, UNITED STATES

NUMBER KIND DATE

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PATENT INFORMATION: US 2003113732 A1 20030619  
US 7056721 B2 20060606  
APPLICATION INFO.: US 2001-26994 A1 20011218 (10)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, Genencor International, Inc., 925  
Page Mill Road, Palo Alto, CA, 94304-1013  
NUMBER OF CLAIMS: 36  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 2012  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a novel endoglucanase nucleic acid sequence, designated egl6, and the corresponding EGVI amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding EGVI, recombinant EGVI proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 18 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2003:332337 USPATFULL <<LOGINID::20071113>>  
TITLE: Sequences of Xylanase and Xylanase expression vectors  
INVENTOR(S): Mantyla, Arja, Helsinki, FINLAND  
Paloheimo, Marja, Helsinki, FINLAND  
Lantto, Raija, Klaukkala, FINLAND  
Fagerstrom, Richard, Espoo, FINLAND  
Lahtinen, Tarja, Vantaa, FINLAND  
Suomenen, Pirkko, Helsinki, FINLAND

Vehmaanpera, Jari, Espoo, FINLAND  
PATENT ASSIGNEE(S): Rohm Enzyme Finland Oy, Rajamaki, FINLAND (non-U.S.  
corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 6667170 B1 20031223  
APPLICATION INFO.: US 1999-235832 19990122 (9)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-590563, filed on 26  
Jan 1996, now patented, Pat. No. US 6300114  
Continuation-in-part of Ser. No. US 1995-468812, filed  
on 6 Jun 1995, now patented, Pat. No. US 5935836  
Continuation-in-part of Ser. No. US 1994-332412, filed  
on 31 Oct 1994, now abandoned Continuation-in-part of  
Ser. No. US 1994-282001, filed on 29 Jul 1994, now  
abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Achutamurthy, Ponnathapu  
ASSISTANT EXAMINER: Walicka, Malgorzata A.  
LEGAL REPRESENTATIVE: Sterne, Kessler, Goldstein & Fox PLLC  
NUMBER OF CLAIMS: 32  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 35 Drawing Figure(s); 28 Drawing Page(s)  
LINE COUNT: 2772  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The production of thermostable xylanses having bacterial origin is  
described. These compositions are useful for modifying plant biomass and  
for enzyme-aided bleaching of wood pulp.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 19 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2001:165605 USPATFULL <<LOGINID::20071113>>  
TITLE: Production and secretion of proteins of bacterial origin  
in filamentous fungi  
INVENTOR(S): Mantyla, Arja, Helsinki, Finland  
Paloheimo, Marja, Vantaa, Finland  
Lantto, Raija, Klaukkala, Finland  
Fagerstrom, Richard, Espoo, Finland  
Lahtinen, Tarja, Vantaa, Finland  
Suominen, Pirkko, Maple Grove, MN, United States  
Vehmaanpera, Jari, Klaukela, Finland

NUMBER KIND DATE

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PATENT INFORMATION: US 2001024815 A1 20010927  
US 6506593 B2 20030114  
APPLICATION INFO.: US 2001-770621 A1 20010129 (9)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-590563, filed on 26  
Jan 1996, PENDING Continuation-in-part of Ser. No. US  
1995-468812, filed on 6 Jun 1995, GRANTED, Pat. No. US  
5935836 Continuation-in-part of Ser. No. US  
1994-332412, filed on 31 Oct 1994, ABANDONED  
Continuation-in-part of Ser. No. US 1994-282001, filed  
on 29 Jul 1994, ABANDONED  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK  
AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934  
NUMBER OF CLAIMS: 44  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 28 Drawing Page(s)  
LINE COUNT: 2119  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The production of thermostable xylanses having bacterial origin is  
described. These compositions are useful for modifying plant biomass and  
for enzyme-aided bleaching of wood pulp.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 20 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2001:173375 USPATFULL <<LOGINID::20071113>>  
TITLE: Sequences of xylanase and xylanase expression vectors  
INVENTOR(S): Mantyla, Aria, Helsinki, Finland  
Paloheimo, Marja, Helsinki, Finland  
Lantto, Raija, Klaukkala, Finland  
Fagerstrom, Richard, Espoo, Finland  
Lahtinen, Tarja, Vantaa, Finland  
Suominen, Pirkko, Helsinki, Finland  
Vehmaanpera, Jari, Espoo, Finland  
PATENT ASSIGNEE(S): Rohm Enzyme Finland Oy, Rajamaki, Finland (non-U.S.  
corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 6300114 B1 20011009  
APPLICATION INFO.: US 1996-590563 19960126 (8)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-468812, filed  
on 6 Jun 1995, now patented, Pat. No. US 5935836  
Continuation-in-part of Ser. No. US 1994-332412, filed  
on 31 Oct 1994, now abandoned Continuation-in-part of  
Ser. No. US 1994-282001, filed on 29 Jul 1994, now  
abandoned  
DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Slobodyansky, Elizabeth  
ASSISTANT EXAMINER: Tung, Peter P.  
LEGAL REPRESENTATIVE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
NUMBER OF CLAIMS: 14  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 36 Drawing Figure(s); 28 Drawing Page(s)  
LINE COUNT: 2093  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The production of thermostable xylanses having bacterial origin is  
described. These compositions are useful for modifying plant biomass and  
for enzyme-aided bleaching of wood pulp.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 21 OF 21 USPATFULL on STN  
ACCESSION NUMBER: 2000:7204 USPATFULL <<LOGINID::20071113>>  
TITLE: Genetic constructs and genetically modified microbes  
for enhanced production of beta-glucosidase  
INVENTOR(S): White, Theresa C., Ottawa, Canada  
Hindle, Christopher D., Ottawa, Canada  
PATENT ASSIGNEE(S): Iogen Corporation, Ottawa, Canada (non-U.S.  
corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 6015703 20000118  
APPLICATION INFO.: US 1998-37524 19980310 (9)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Wax, Robert A.  
LEGAL REPRESENTATIVE: Fitzpatrick, Cella, Harper & Scinto  
NUMBER OF CLAIMS: 29  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)  
LINE COUNT: 1680  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB This invention relates to the genetic modification of a microbe to  
enhance its production of an enzyme, beta-glucosidase, that is important  
in the cellulose conversion process. The inventors have discovered  
genetic constructs that, when expressed in recombinant microbes,  
dramatically increase the amount of beta-glucosidase produced relative  
to untransformed microbes. The genetic constructs comprise a promoter, a  
xylanase secretion signal, and a mature beta-glucosidase coding region.  
The increased level of beta-glucosidase significantly increases the



efficiency of hydrolysis of cellulose to glucose by cellulase enzymes,  
thereby enhancing the production of fuel ethanol from cellulose.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L1 QUE (CELLULASE OR 029CEL)

FILE 'CAPLUS, BIOSIS, SCISEARCH, USPATFULL, CABA, PASCAL, WPIDS, LIFESCI,  
MEDLINE, EMBASE, AGRICOLA, BIOENG, BIOTECHNO, TOXCENTER' ENTERED AT  
11:03:23 ON 13 NOV 2007

L2 81102 S L1

L3 7263 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)(

L4 2906 S EXPRESS? (S) L3

L5 0 S TRICHODERA (S) L4

L6 500 S TRICHODERMA (S) L4

L7 390 S REESEI (S) L6

L8 143 S (TRANSFORM? OR HOST OR VECTOR) (S) L7

L9 3 S STREPTOMYCES (S) L8

L10 26 S STREPTOMYCES AND L8

L11 21 S COMPOSITION AND L10

L12 10 S (FEED (W) ADDITIVE) AND L11

L13 26 DUP REM L10 (0 DUPLICATES REMOVED)

L14 21 DUP REM L11 (0 DUPLICATES REMOVED)

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